

ABSTRACT



A magnetic memory includes a substrate, a magnetic element lower part, a magnetic element upper part, and a side wall insulation film. The magnetic element lower part is installed on the upper surface of the substrate. The magnetic element upper part is the remaining part of the magnetic element installed on the upper surface of the magnetic element lower part. The side wall insulation film is installed so as to surround the magnetic element upper part and formed of an insulation body. The magnetic element lower part is one or more layers nearer the substrate among a plurality of laminated films. The magnetic element upper part is those layers other than the magnetic element lower part installed on the upper surface of the magnetic element lower part. The side surface of the magnetic element upper part is electrically insulated from the other portions by the side wall insulation film.